AMENDMENT NO		Calendar No	
Pur	urpose: In the nature of a substitut	e.	
IN '	THE SENATE OF THE UNITED STA	TES-118th Cong., 1st Sess.	
	S. 1425		
	To require a report on Federal support of commercial satellite systems, a		
Re	Referred to the Committee on ordered to be pri		
	Ordered to lie on the table a	and to be printed	
A	AMENDMENT IN THE NATURE OF A to be proposed by Mr		
Viz	iz:		
1	Strike all after the enacting	clause and insert the fol-	
2	2 lowing:		
3	SECTION 1. SHORT TITLE.		
4	This Act may be cited as the	e "Satellite Cybersecurity	
5	5 Act".		
6	SEC. 2. DEFINITIONS.		
7	In this Act:		
8	(1) Clearinghouse.	—The term "clearing-	
9	house" means the commercia	ial satellite system cyber-	
10	security clearinghouse requi	ired to be developed and	
11	maintained under section 4(	b)(1).	

1	(2) COMMERCIAL SATELLITE SYSTEM.—The
2	term "commercial satellite system"—
3	(A) means a system that—
4	(i) is owned or operated by a non-
5	Federal entity based in the United States;
6	and
7	(ii) is composed of not less than 1
8	earth satellite; and
9	(B) includes—
10	(i) any ground support infrastructure
11	for each satellite in the system; and
12	(ii) any transmission link among and
13	between any satellite in the system and
14	any ground support infrastructure in the
15	system.
16	(3) Critical infrastructure.—The term
17	"critical infrastructure" has the meaning given the
18	term in subsection (e) of the Critical Infrastructure
19	Protection Act of 2001 (42 U.S.C. 5195c(e)).
20	(4) Cybersecurity risk.—The term "cyberse-
21	curity risk" has the meaning given the term in sec-
22	tion $2209$ of the Homeland Security Act of $2002$ (6
23	U.S.C. 659).
24	(5) Cybersecurity threat.—The term "cy-
25	bersecurity threat" has the meaning given the term

1 in section 102 of the Cybersecurity Information 2 Sharing Act of 2015 (6 U.S.C. 1501). (6) Director.—The term "Director" means 3 4 the Director of the Cybersecurity and Infrastructure 5 Security Agency. 6 (7) Sector risk management agency.—The 7 term "sector risk management agency" has the 8 meaning given the term "Sector-Specific Agency" in 9 section 2201 of the Homeland Security Act of 2002 10 (6 U.S.C. 651). SEC. 3. REPORT ON COMMERCIAL SATELLITE CYBERSECU-12 RITY. 13 (a) STUDY.—The Comptroller General of the United 14 States shall conduct a study on the actions the Federal 15 Government has taken to support the cybersecurity of commercial satellite systems, including as part of any ac-16 17 tion to address the cybersecurity of critical infrastructure 18 sectors. 19 (b) Report.—Not later than 2 years after the date 20 of enactment of this Act, the Comptroller General of the 21 United States shall report to the Committee on Homeland 22 Security and Governmental Affairs and the Committee on 23 Commerce, Science, and Transportation of the Senate and the Committee on Homeland Security and the Committee 25 on Space, Science, and Technology of the House of Rep-

1	resentatives on the study conducted under subsection (a)
2	which shall include information—
3	(1) on efforts of the Federal Government, and
4	the effectiveness of those efforts, to—
5	(A) address or improve the cybersecurity of
6	commercial satellite systems; and
7	(B) support related efforts with inter-
8	national entities or the private sector;
9	(2) on the resources made available to the pub-
10	lic by Federal agencies to address cybersecurity risks
11	and threats to commercial satellite systems, includ-
12	ing resources made available through the clearing-
13	house;
14	(3) on the extent to which commercial satellite
15	systems are reliant on, or relied on by, critical infra-
16	structure;
17	(4) that includes an analysis of how commercial
18	satellite systems and the threats to those systems
19	are integrated into Federal and non-Federal critical
20	infrastructure risk analyses and protection plans;
21	(5) on the extent to which Federal agencies are
22	reliant on commercial satellite systems and how Fed-
23	eral agencies mitigate cybersecurity risks associated
24	with those systems;

1	(6) on the extent to which Federal agencies are
2	reliant on commercial satellite systems that are
3	owned wholly or in part or controlled by foreign enti-
4	ties, or that have infrastructure in foreign countries,
5	and how Federal agencies mitigate associated cyber-
6	security risks;
7	(7) on the extent to which Federal agencies co-
8	ordinate or duplicate authorities and take other ac-
9	tions focused on the cybersecurity of commercial sat-
10	ellite systems; and
11	(8) as determined appropriate by the Comp-
12	troller General of the United States, that includes
13	recommendations for further Federal action to sup-
14	port the cybersecurity of commercial satellite sys-
15	tems, including recommendations on information
16	that should be shared through the clearinghouse.
17	(c) Consultation.—In carrying out subsections (a)
18	and (b), the Comptroller General of the United States
19	shall coordinate with appropriate Federal agencies and or-
20	ganizations, including—
21	(1) the Office of the National Cyber Director;
22	(2) the Department of Homeland Security;
23	(3) the Department of Commerce;
24	(4) the Department of Defense;
25	(5) the Department of Transportation;

1	(6) the Federal Communications Commission;		
2	(7) the National Aeronautics and Space Admin-		
3	istration;		
4	(8) the National Executive Committee for		
5	Space-Based Positioning, Navigation, and Timing;		
6	and		
7	(9) the National Space Council.		
8	(d) Briefing.—Not later than 2 years after the date		
9	of enactment of this Act, the Comptroller General of the		
10	United States shall provide a briefing to the appropriate		
11	congressional committees on the study conducted under		
12	subsection (a).		
13	(e) CLASSIFICATION.—The report made under sub		
14	section (b) shall be unclassified but may include a classified		
15	fied annex.		
16	SEC. 4. RESPONSIBILITIES OF THE CYBERSECURITY AND		
17	INFRASTRUCTURE SECURITY AGENCY.		
18	(a) Small Business Concern Defined.—In this		
19	section, the term "small business concern" has the mean-		
20	ing given the term in section 3 of the Small Business Act		
21	(15 U.S.C. 632).		
22	(b) Establishment of Commercial Satellite		
23	System Cybersecurity Clearinghouse.—		
24	(1) In General.—Not later than 180 days		
25	after the date of enactment of this Act, the Director		

1	shall develop and maintain a commercial satellite
2	system cybersecurity clearinghouse.
3	(2) Requirements.—The clearinghouse—
4	(A) shall be publicly available online;
5	(B) shall contain publicly available com-
6	mercial satellite system cybersecurity resources,
7	including the voluntary recommendations con-
8	solidated under subsection $(c)(1)$ ;
9	(C) shall contain appropriate materials for
10	reference by entities that develop, operate, or
11	maintain commercial satellite systems;
12	(D) shall contain materials specifically
13	aimed at assisting small business concerns with
14	the secure development, operation, and mainte-
15	nance of commercial satellite systems; and
16	(E) may contain controlled unclassified in-
17	formation distributed to commercial entities
18	through a process determined appropriate by
19	the Director.
20	(3) Content Maintenance.—The Director
21	shall maintain current and relevant cybersecurity in-
22	formation on the clearinghouse.
23	(4) Existing platform or website.—To the
24	extent practicable, the Director shall establish and
25	maintain the clearinghouse using an online platform,

1	a website, or a capability in existence as of the date
2	of enactment of this Act.
3	(c) Consolidation of Commercial Satellite
4	System Cybersecurity Recommendations.—
5	(1) In general.—The Director shall consoli-
6	date voluntary cybersecurity recommendations de-
7	signed to assist in the development, maintenance,
8	and operation of commercial satellite systems.
9	(2) Requirements.—The recommendations
10	consolidated under paragraph (1) shall include mate-
11	rials appropriate for a public resource addressing, to
12	the greatest extent practicable, the following:
13	(A) Risk-based, cybersecurity-informed en-
14	gineering, including continuous monitoring and
15	resiliency.
16	(B) Planning for retention or recovery of
17	positive control of commercial satellite systems
18	in the event of a cybersecurity incident.
19	(C) Protection against unauthorized access
20	to vital commercial satellite system functions.
21	(D) Physical protection measures designed
22	to reduce the vulnerabilities of a commercial
23	satellite system's command, control, and telem-
24	etry receiver systems.

(E) Protection against jamming, eaves-
dropping, hijacking, computer network exploi-
tation, spoofing, threats to optical satellite com-
munications, and electromagnetic pulse.
(F) Security against threats throughout a
commercial satellite system's mission lifetime.
(G) Management of supply chain risks that
affect the cybersecurity of commercial satellite
systems.
(H) Protection against vulnerabilities
posed by ownership of commercial satellite sys-
tems or commercial satellite system companies
by foreign entities.
(I) Protection against vulnerabilities posed
by locating physical infrastructure, such as sat-
ellite ground control systems, in foreign coun-
tries.
(J) As appropriate, and as applicable pur-
suant to the maintenance requirement under
subsection (b)(3), relevant findings and rec-
ommendations from the study conducted by the
Comptroller General of the United States under
section 3(a).
(K) Any other recommendations to ensure
the confidentiality, availability, and integrity of

1	data residing on or in transit through commer-
2	cial satellite systems.
3	(d) Implementation.—In implementing this sec-
4	tion, the Director shall—
5	(1) to the extent practicable, carry out the im-
6	plementation in partnership with the private sector;
7	(2) coordinate with—
8	(A) the Office of the National Cyber Direc-
9	tor, the National Space Council, and the head
10	of any other agency determined appropriate by
11	the Office of the National Cyber Director or the
12	National Space Council; and
13	(B) the heads of appropriate Federal agen-
14	cies with expertise and experience in satellite
15	operations, including the entities described in
16	section 3(c), to enable—
17	(i) the alignment of Federal efforts on
18	commercial satellite system cybersecurity;
19	and
20	(ii) to the extent practicable, consist-
21	ency in Federal recommendations relating
22	to commercial satellite system cybersecu-
23	rity; and
24	(3) consult with non-Federal entities developing
25	commercial satellite systems or otherwise supporting

1	the cybersecurity of commercial satellite systems, in-
2	cluding private, consensus organizations that develop
3	relevant standards.
4	(e) REPORT.—Not later than 1 year after the date
5	of enactment of this Act, and every 2 years thereafter until
6	the date that is 9 years after the date of enactment of
7	this Act, the Director shall submit to the Committee on
8	Homeland Security and Governmental Affairs and the
9	Committee on Commerce, Science, and Transportation of
10	the Senate and the Committee on Homeland Security and
11	the Committee on Space, Science, and Technology of the
12	House of Representatives a report summarizing—
13	(1) any partnership with the private sector de-
14	scribed in subsection $(d)(1)$ ;
15	(2) any consultation with a non-Federal entity
16	described in subsection (d)(3);
17	(3) the coordination carried out pursuant to
18	subsection $(d)(2)$ ;
19	(4) the establishment and maintenance of the
20	clearinghouse pursuant to subsection (b);
21	(5) the recommendations consolidated pursuant
22	to subsection $(c)(1)$ ; and
23	(6) any feedback received by the Director on
24	the clearinghouse from non-Federal entities.

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2	Not later than 120 days after the date of the enact-
3	ment of this Act, the National Space Council, jointly with
4	the Office of the National Cyber Director, in coordination
5	with the Director of the Office of Space Commerce and
6	the heads of other relevant agencies, shall submit to the
7	Committee on Homeland Security and Governmental Af-
8	fairs and the Committee on Commerce, Science, and
9	Transportation of the Senate and the Committee or
10	Homeland Security and the Committee on Space, Science,
11	and Technology of the House of Representatives a strat-
12	egy for the activities of Federal agencies to address and
13	improve the cybersecurity of commercial satellite systems
14	which shall include an identification of—
15	(1) proposed roles and responsibilities for rel-
16	evant agencies; and
17	(2) as applicable, the extent to which cybersecu-
18	rity threats to such systems are addressed in Fed-
19	eral and non-Federal critical infrastructure risk
20	analyses and protection plans.
21	SEC. 6. RULES OF CONSTRUCTION.
22	Nothing in this Act shall be construed to—
23	(1) designate commercial satellite systems or
24	other space assets as a critical infrastructure sector
25	or

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1	(2) infringe upon or alter the authorities of the
2	agencies described in section 3(e).
3	SEC. 7. SECTOR RISK MANAGEMENT AGENCY TRANSFER.
4	If the President designates an infrastructure sector
5	that includes commercial satellite systems as a critical in-
6	frastructure sector pursuant to the process established
7	under section 9002(b)(3) of the William M. (Mac) Thorn-
8	berry National Defense Authorization Act for Fiscal Year
9	2021 (Public Law 116–283; 134 Stat. 4770) and subse-
10	quently designates a sector risk management agency for
11	that critical infrastructure sector that is not the Cyberse-
12	curity and Infrastructure Security Agency, the President
13	may direct the Director to transfer the authorities of the

14 Director under section 4 of this Act to the head of the

15 designated sector risk management agency.